

MINED LAND RECLAMATION -- CHECKLIST

TITLE 40-8 UCA 1953
GENERAL RULES AND REGULATIONS
RULES OF PRACTICE AND PROCEDURE

3370

MINE Diatex, Inc
ACT/99/11 COUNTY Grand County
COMPANY REPRESENTATIVE Leo Lemay

MINE PLAN DATE April 11, 1980
DATE RECEIVED _____
DOGM LEAD REVIEWER Joe Holbrich

Joe

| CITATION | REGULATION | INCLUDED IN PLAN | ADEQUATE | COMMENTS |
|--------------|--|---------------------|----------|---|
| | LEGAL, FINANCIAL | | | |
| M-3/MR 1/1. | Name of Applicant | ✓ | ✓ | Diatex |
| M-3/MR 1/2. | Address | ✓ | ✓ | CALGARY |
| | Permanent | ✓ | ✓ | CISCO |
| | Temporary | ✓ | ✓ | |
| M-3/MR 1/3. | Company Representative | ✓ | ✓ | LEO Lemay |
| | Name | ✓ | ✓ | V.P. |
| | Title | ✓ | ✓ | |
| M-3/MR 1/4. | Address | ✓ | ✓ | 403-276-9462 |
| | Office Phone | ✓ | ✓ | |
| M-3/MR 1/5. | Location | ✓ | ✓ | GRAND |
| | County | ✓ | ✓ | 178B T23S R24E |
| | Township/Range/Section | ✓ | ✓ | |
| M-3/MR 1/6. | Name of Mine | ✓ | ✓ | Poorboy |
| M-3/MR 1/7. | Mineral to be Mined | ✓ | ✓ | GOLD |
| M-3/MR 1/8. | <u>Other Approvals/Listed</u> | 0 | 0 | ① Need Pre-design conference with Utah Div of HEA Env. HEALTH |
| M-3/MR 1/9. | Owners of Record of Land Affected | ✓ | (BUM) | ② WATER RIGHTS |
| M-3/MR 1/10. | Owners of Record of Minerals to be Mined | ✓ | ✓ | + Dam Safety for approval of impoundments design. |
| M-3/MR 1/11. | Owners of Record of all Other Minerals | ✓ | ✓ | ③ Corp of Engineers 404 permit? |

Water Appropriation
+ stream alterations →

(Don Norseth)

check with
Water Rights

③ Corp of Engineers 404 permit?

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| M-3/MR 1/11a. | Notification of Other Owners in Writing | | 0 | Need to Notify: Mr. Robert Barnes Ray Bronscom or show documentation of joint venture |
| M-3/MR 1/12. | Legal Right to Enter & Conduct Operations | | | |
| M-3/MR 1/13. | Acreage 1. Operation Area 2. Access Road or Haulways 3. Drainage System 4. Total Land Affected | | | |
| M-3/MR 1/14. | Principal Executives, Officer & Partners Name Title Address | ✓ | 0 | 50 acres of acre only found 13.2 acres delineated |
| M-3/MR 1/15. | Previous Notice of Intention Withdrawn | ✓ | ✓ | No |
| M-3/MR 1/16. | Signed | ✓ | ✓ | OK |
| | <u>MAPS AND PLANS</u> | | | |
| M-3(1) | True Copy Map or Plat | | 0 | Delineate claims on operations maps |
| M(3)(1)(a) | Land Affected Delineation | ✓ | 0 | all maps with need legal boundaries topographic map also. |
| M(3)(1)(b) | Within Land Affected Existing Mine Areas Active Abandoned (prior to May, 1975) Boundaries of Surface Properties - Names of Surface Owners Names of Mineral Owners | | 0 | Delineated on operators plan map. Show as such Show names Show names |

Does the
delineation project
off the map
shown.

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| M-2 | <p>"Land Affected means the surface and subsurface of an area within the state where mining operations are being or will be conducted, including, but not limited to: on-site private ways, roads, and railroad lines appurtenant to any such area; land excavations; exploration sites; drill sites or workings; refuse banks or spoil piles; evaporation or settling ponds; leaching dumps; placer areas; tailings ponds or dumps; work parking, storage, or waste discharge areas; areas in which structures, facilities, equipment, machines, tools or other materials or property which result from or are used in such operations, are situated. All lands shall be excluded that would be otherwise includable as land affected but which have been reclaimed in accordance with an approved plan or otherwise, as may be approved by the Board, and lands in which mining operations have ceased prior to July 1, 1977."</p> | | | <p><i>Applicant must delineate on map of suitable scale to show total extent of disturbance for life of operation</i> <i>Poor Reg. #1, #2, & #3</i></p> |
| M-3(1)(c) M6 | <p>"All maps and plans prepared for submission with the Notice of Intention to Commence Mining Operations shall be of adequate</p> | | | |

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| M-3(1)(c) M6 (continued) | scale and detail to <u>show topographic</u> features and clearly indicate details of the proposed operations in accordance with Rule M-3. A color code, or other legend, shall be used in preparing all maps to clearly indicate surface features of the land affected." | ✓ | | Need topographic detail at least 40' contours. |
| M-3(1)(d) | Names and Locations Lakes, Rivers, Streams, Creeks Roads, Buildings Active, Abandoned Facilities Transmissions Lines (within 500 feet) | ✓ ✓ | NP | label river Applicant should delineate existing buildings if any |
| M-3(1)(e) | Drainage Plan Overburden, Topsoil, Waste Stockpiles Directional Flow Constructed Drainways, Diversions, Berms Receiving Waters | ✓ | No No | Colorado River? |
| M-3(1)(f) | Drill Holes Location Status Depths and Thickness Water Bearing Strata Mineral Deposits Toxic Materials Revegetation Materials (topsoil) | as per | | adress |
| M-3(1)(g) | Locations of Disposal and Stockpile Areas Topsoil Storage Overburden Materials Waste, Tailings, Rejected Materials Tailings-Ponds Discharge Points, Water Effluents | No No No No ? 2 | No | (Request map) Joe. |

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| | <u>EFFLUENT CONTROL</u> <i>Wayne</i> | | | <i>Ponds?</i> |
| M-10/11 | Methods for Controlling Sediment | | | |
| M(3)(3)(11) | "Sediment Control--Mining operations shall be conducted in a manner such that sediment from areas disturbed in mining or reclamation activities is adequately controlled. The degree of sediment control shall be appropriate for the site-specific and regional conditions of topography, soil, drainage, water quality, or other characteristics." | | | <p><i>Applicant must provide means (where necessary) by which on-site erosion and sediment losses will be controlled, thereby minimizing any negative impacts to the hydrologic system. The plan should include maps and narrative depicting methods to be utilized, surface drainage configurations, where structures will be implemented, etc. Some suggested methods may include: sediment detention basins, diversions, berms, vegetative filters, straw filters, silt fences, etc. The plan does not address what contaminants, if any, will be added to the processing water during operations. The applicant should provide a sampling program for any discharges off-site. Any point discharges will require an NPDES permit. A copy of any discharge permits shall be submitted to the Division.</i></p> <p><i>The applicant must describe the operation details - how many cubic yards per day/month, what is a 14-day run, one day operation, how much area per year/month.</i></p> <p><i>The applicant must show the sequence by year of mining - what equipment will be used etc.</i></p> <p><i>The maps are difficult to correlate</i></p> |
| M-3(1)(h) | Description of Water to be Disposed Expected Acid or Salt Content Expected Toxicity Expected Impact on Downstream Waters Description of Discharge Permits | | | |
| M-3(3) | <u>OPERATION PLAN/SITE CONSTRUCTION</u> | | | |
| M-3(3)/MR 1-7 MR 2-7 | Mining Method General Details If Sedimentary Deposit Seam Thickness Dip Outcrop | | | |
| MR 2-11(1) | Mining Sequence | | | |
| MR 2-11(b) | Construction and Maintenance of Access Roads Procedures Cross-section Profile | | | |

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| MR 2-11(c) | Site Preparation Trees Brush | ✓ | ✓ | None growing? |
| M-3(2)c MR 2-11(d) | Topsoil, Root Growth, Medium | | | |
| MR-2/11(c) | Methods for Removal Amounts of Topsoil Removed Methods of Topsoil Protection | ✓ 0 ✓ | ✓ 0 ✓ | Not necessary No Topsoil? n/a |
| M-10(14) | "Soils--Except where slope or rocky rocky terrain make it impossible, all surficial materials, suitable as a growth medium, prior to any major excavation, shall be removed, segregated, and stockpiled according to its ability to support vegetation as determined by soil analysis and/or practical revegetation experience. The stockpiles shall be protected in such a manner as to minimize or prevent wind and water erosion, unnecessary compaction, and contamination by undesirable materials. Redistribution and surficial material after final grading shall be accomplished in such a manner as to promote revegetation success." | | | address topsoil removal/Soe |
| M-3(2)c MR 2-11(e) | Disturbed and Excess Materials Tailings, Waste and Reject Handling Method of Placement and Containment Stability and Erosion Control Overburden Method of Placement and Containment Stability and Erosion Control Toxic, Acid/Alkali Producing Materials | | | Address method of Placement Safety Factor of 1.5 More? |

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| MR-2/10. | Determination as Toxic, Acid, Alkali Testing Procedure and Results | | | <i>Not Toxic MR-9 states.</i> |
| M-2 K(6) | "Toxic means any chemical or biological or adverse characteristic of the material involved which could reasonable be expect to negatively affect ecological or hydrological systems or could be hazardous to the public safety and welfare." | | | |
| M-10(6) | <i>See</i> "Toxic Materials--All toxic or potentially toxic material, as defined by Rule M-2(k), shall be safely removed from the site or left in an isolated condition such that solid, liquid or gaseous toxic emissions to the environment are reasonably eliminated or controlled. Such isolation practices may include, but not be limited to, burial, subsurface injection, chemical precipitation or neutralization, and filtering. All appropriate regulations of the Division of Health must be complied with as well as Federal regulations." | | | |
| M-3(2)(c) MR-2/11(e) | Method of Placement and Containment Stability and Erosion Control | | | <i>Show MR-9</i> |

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| M-3(2) | <u>RECLAMATION PLAN</u> | | | |
| M-10 | <p>"The following reclamation standards are established where applicable for all work or activity required to be performed in accordance with reclamation plans approved subsequent to June 1, 1978. Mine workings abandoned prior to May, 1975, need not be reclaimed unless said workings are utilized for subsequent operations. Areas on which these standards are proposed to be non-applicable will be designated on the maps submitted by this operator in accordance with Rule M-6, and may be shown on supplementary ground or air photographs.</p> <p>Said standards shall apply to all operators covered by a mining and reclamation plan and variances to all portions herein will be considered on a site-specific basis by the Division and/or Board."</p> | | | |
| M-2i | <p>"Reclamation means actions performed during or after mining operations to shape, stabilize, revegetate, or otherwise treat the land affected in order to achieve a safe, stable, ecological condition and use which will be consistent with local environmental conditions."</p> | | | |

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| M-3(2)/MR 2,3 | Land Uses | | | |
| M-3(2)(a) | Prior Land Uses | <u>No</u> | | |
| M-3(2)(a) | Current Uses | <u>No</u> | | |
| M-3(2)(b) | Potential Uses | <u>No</u> | | |
| M-10(1) | "Land Use--The operator shall abandon the area affected in a condition which is capable of supporting a postmining use that is compatible with probable land uses." | | | is this the case |
| M-3(2)/MR 2-4 | Existing Vegetation Percent Cover | 100 | ✓ | |
| M-3(2)/MR 2-5 | Existing Soils pH | 7.1 | ✓ | |
| M-3(2)/MR 2-6 | Soil Lab Reference Site Elevation Site Abandonment | <u>Diatex</u> | | applicant |
| M-10(2) | "Public Safety and Welfare--The operator shall minimize hazards to the public safety and welfare following mining. Methods to minimize hazards shall include but not be limited to: (a) The closing of shafts and tunnels to prevent unauthorized or accidental entry. | | | |

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| M-10(2) (continued) | (b) The disposal of trash, scrap metal and wood, unuable buildings extraneous debris and other materials incident to mining in a manner approved by the Division and in accordance with the Rules and Regulations of the Division of Health. | <u>No</u> | | |
| | (c) The plugging and capping of drill, core or other exploratory holes as set forth in Rule M-3(5). | | | <i>are there any</i> |
| | (d) The posting of appropriate warning signs in locations where public access to operations is readily available. | <i>must post on road</i> | | |
| | (e) The construction of berms, fences and/or barriers above high-walls or other excavations when required by the Division." | | | <i>where is commitment to M-10 form MR-8? OR</i> |
| M-10(9) | Structure Removal | | | |
| | "Structures and Equipment--All structures, rail lines, utility connections, equipment, and debris shall be removed from the surface prior to regarding and reclamation unless temporarily abandoned or approved by the Division for a continuing use." | | | |

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| M-3(2)(d) MR-2(f) | Procedures and Methods For Final Stabilization and Regrading | | | |
| MR-2(a) | <i>See</i> Typical Cross-section of Regraded areas Specific Description of Regrading areas | | | |
| M-10(10) | <p>"Shafts and Portals--All shafts and portals shall be covered or closed and all trenches and small pits shall be backfilled or covered when a mine has been abandoned so as to eliminate any safety hazard.</p> <p>Roads and Pads--On-site roads and pads shall be reclaimed or stabilized when the operator determines that they are no longer needed for mining operations. The reclamation should include provisions for adequate surface drainage protection and unrestricted drainage crossings. When a road or pad is to be turned over to an approved continuing use, as determined by the operator, the operator shall turn over the property with adequate surface drainage, drainage structures, ditching, and in a general condition suitable for the continued use.</p> <p>Highwalls--In strip mining or open pit mining and in open cuts for pads or roadways all such highwalls shall be reclaimed by backfilling</p> | | | <p><i>The applicant should provide a typical cross-section of regraded areas delineating the proposed post-mining land contour. This map should be of the same scale as the map required by (above) item # 3. This map must show post-mining drainage, slope grades etc.</i></p> <p><i>ex accordance w/ MR 2(f)</i></p> |

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| <i>Highwalls (continued)</i> | <p>against them or by cutting the wall back to achieve a slope angle of 45° or less. Where the highwall is composed of solid rock; is designed to be stable utilizing benches, tie-backs, etc.; or, there is insufficient material reasonably available to backfill; or cutting the wall back would result in excessive damage to undisturbed land above the highwall; and taking into consideration suitable alternative safety measures; future land use, etc.; the Division may modify or waive the above requirements."</p> | | | |
| MR-2(e) | <p><i>See</i> Description of Maximum Slope Grades</p> <p>"Slopes--All waste piles, spoil piles, and fills shall, if possible, be regraded to a rounded configuration and they shall be sloped to minimize safety hazards and erosion. The angle of slope from the bottom to the top of the pile or fill can be greater than the surrounding terrain provided that the mass stability of the slope is assured and that the erosion of the slope is minimized by measures such as, but not limited to; terracing, surface drainage facilities, cross-slope ripping or scarifying and vegetation. In no case shall the slope of a pile or fill exceed the angle of repose of</p> | | | |

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| Slopes (continued) | the material or such lesser slope as required by the Division considering such factors as: land use, material properties, revegetation potential or erosion control." | | | |
| MR-2(1) | Description of Determining Stability of Reclaimed Fill Material | | | |
| MR-2(f) | Description of the Method of Drainage Control for Regraded Areas | | | |
| | "Drainages--All natural channels and associated flood plains shall not be covered, restricted or rerouted by roads, pads, piles, fills or diversions unless specifically approved by the Division after a suitable hydrologic study and incorporating a sound hydraulic design. All drainage structures, sediment or flood control structures, spoil, ore, waste, fill material and debris must be removed from natural channels and flood plains before an operator abandons the site except where approved by the Division. | | | |

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| M-10(13) | Dams--All major water impounding structures such as tailings, dams, water storage and supply dams, coal waste dams and major sedimentation control dams shall be reclaimed when abandoned so as to be nonimpounding, self-draining, mechanically stable and protected from erosion. | | | <i>Design plans for impounding structures (dams) and</i> |
| M-10(3) | Impoundments--All evaporation, tailings and sediment ponds; spoil piles, fills, pads and regraded areas shall be self-draining and nonimpounding when abandoned unless previously approved as an impounding facility by a lawful state or federal agency." | | | |
| MR-2(10) | Topsoil Distribution Plans Specific Description of Spreading Topsoil/ Growth Medium Approximate Thickness of Topsoil/Growth Medium | | | |
| MR-2(3) | Description of Surface Preparation Revegetation Plans | | | |
| MR-2(1) | Who Will Complete Revegetation? Seed Bed Preparation | | | |

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| MR-2(1) | Description of Soil Treatments to Aid Revegetation | | | |
| M-10.12 | "Practical land treatments may include but not be limited to: scarifying, mulching, fertilization, irrigation, chisel plowing, harrowing and the introduction of soil mycorrhiza. | | | |
| M-10.12 | Description of Method for Testing Soil to Support Vegetation Fertilization Plans | | | |
| MR-2-2. | Mulch Type Rate/Acre | | | |
| M-3(2)(e()) | Seeding "A planting program as best calculated to revegetate the land affected. Where there is no original protective cover, an alternate practical procedure should be proposed to minimize or control erosion or siltation. When applicable, the objective in revegetation should be to stabilize the land as quickly as possible after it has been disturbed in order to achieve permanent and protective vegetative cover. Non-noxious native plants that will give a quick, permanent, protective cover and enrich the soil shall be given priority." | | | |

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| MR 2-1 | Description of Seeding Method | | | |
| MR 2-3 | Justification of Seed Mix | | | |
| M-10(12) | <p>"Revegetation--Where possible, a self-sustaining vegetative cover consisting of non-noxious perennial plants shall be established by the operator subsequent to final grading on the entire area affected. Plants shall be a diverse mixture of grasses, shrubs, forbs and where potential for forestation exists, trees; the mixture may include both native and introduced species. Revegetation shall be performed using professionally accepted methods such as seeding, transplanting or propagating by cuttings.</p> <p>(1) The species selection shall reflect the post-mining land use as set forth in Rule M-10(1)</p> | | | |
| MR-2 3. | U. S. Soil Conservation Service | | | |
| MR-2 3. | Test Plots Use of Seed Mix | | | |
| MR-2 3. | Description of Application Location/Facing (bearing) Rate Per Acre (PLS) Species Mix Per Location Season to be Planted Maintenance/Monitoring | | | |

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| MR-2/5. | Description of Irrigation Methods To Establish Vegetation Inspections Frequency Purpose Livestock Grazing Fencing Vegetation Protection | | | |
| M-3(2)(f) | Reclamation Schedule Estimated Time for Construction Estimated Time for Interim Reclamation Estimated Duration of Mining Operation A Time Table for the Accomplishment of Each Major Step in Reclamation Plans | | | The applicant must provide a reclamation schedule pursuant to rule M-3(2)(f) including |
| MR-2 8. M-3(2)f | | | | |
| M-5 | Reclamation Surety Estimate Estimate Based on Reclamation Plan Cleanup and Removal of Structures Grading and Contouring Stabilization Labor Safety and Fencing Monitoring | | | Pursuant to Rule M-5 the applicant should must provide a reclamation surety estimate per the attached form. including costs per |
| M-3 | Standard of Reclamation Success " (2) Revegetation shall be deemed to be accomplished and successful when: (a) Species intended for revegetation by this Rule have achieved a surface cover of at least 70% of the representative vegetative communities surrounding the mine. Surrounding vegetative cover levels shall be | | | |

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| INCLUDED | | | | |
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| (a) (continued) | <p>determined by the operator using professionally accepted inventory methods and be approved by the Division.</p> <p>(b) The vegetation initiated on the area affected has survived for at least three (3) growing seasons, is evenly distributed, and is not supported by irrigation or continuing soil amendments.</p> <p>(3) Exceptions to Part 12 may be granted by the Division for areas which consist of solid rock outcrops and it is demonstrated by the operator that sufficient surficial soil does not exist for covering said outcrops. Test plots established by the operator in consultation with the Division shall demonstrate after all practical land treatments have been attempted that the revegetation standards are not attainable."</p> | | | |
| M-10 MR-8 | Commitment to Rule M-10. | | | |